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[0319] A protein supplemented food product formed from a premix which includes modified oilseed material is described. The premix can be utilized in a variety of nutritional applications, including the preparation of protein supplemented food products such as ready-to-eat cereals and other cereal grain products, wherein the modified oilseed material typically includes at least 85 wt.% protein (dry solids basis), and at least about 40 wt.% of the protein has an apparent molecular weight of greater than 300 kDa, and/or the protein has a MW50 of at least about 200 kDa.